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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|----------------------------|-----------------|----------------------|-------------------------|------------------|
| 10/003,958 11/15/2001 | | Michael Baentsch | CH920000029 6674 | |
| 75 | 90 08/26/2004 | | EXAM | INER |
| Casey August | | YIGDALL, MICHAEL J | | |
| | perty Law Dept. | | ADTIBUT | DADED MUMBED |
| IBM Corporation | on | | ART UNIT | PAPER NUMBER |
| P.O. Box 218 | | | 2122 | |
| Yorktown Heights, NY 10598 | | | DATE MAILED: 08/26/2004 | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ③ MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Etalenisor of turn may be evaluated used the previous of 3 CFR 1.138(a), in no event, however, may a reply be timely filed Etalenisor of turn may be evaluated used the previous of 3 CFR 1.138(a), in no event, however, may a reply be timely filed Etalenisor of turn may be evaluated used to the filed of the provided previous of 3 CFR 1.138(a), in no event, however, may a reply be timely filed If the period for reply specified above is less than thirty (30) days, a reply which in the total provide of the provided previous of the period for reply with the set or extended previous the provided previous of the provided previous of the provided previous of the provided patient term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 15 November 2001. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1.16 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1.16 is/are rejected. 7) Claim(s) is/are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 15 November 2001 is/are: a) accepted or b) objected to by the Examiner. Application Papers 10) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). 3) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). 3) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). 3) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). 3) Acknowledgment is ma | | Application No. | Applicant(s) | | | |
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| Michael J. Yigdall 2122 | | 10/003,958 | BAENTSCH ET AL. | | | |
| — The MALLING DATE of this communication appears on the cover sheet with the correspondence address—Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ③ MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extension of time may be available used the previous of 3°CPR 1.75(a), in no event, however, may a reply be timely filled Extension of temple specified above is less than timity (80) days, a rely within the shakeday minimum of thinty (30) days will be considered timely. Extension of temple specified above is less than timity (80) days, a rely within the shakeday minimum of thinty (30) days will be considered timely. Extension of temple specified above is less than timity (80) days, a rely within the shakeday minimum of thinty (30) days will be considered timely. Extension of temple specified above is less than timity (80) days, a rely within the shakeday minimum of thinty (30) days will be considered timely. Extension of the price of the price of the construction of the price of the construction. Fallow to reply within the extension of the rely will be shaked, name the minimum of thinty (30) days will be considered timely. Find the shaked and the communication (s) filled on the shakeday minimum of the price of the construction. Find the shaked and the shakeday of the shakeday of the shakeday of the rely within the action and the shakeday of the sha | Office Action Summary | Examiner | Art Unit | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Exercisions of time may be available under the protections of 37 CFR L135(a). In no event, however, may a reply be timely filed - Exercision of time may be available under the protections of 37 CFR L135(a). In no event, however, may a reply be timely filed - Exercision of time may be available under the protections of 37 CFR L135(a). In no event, however, may a reply be timely filed - If NO period for reply is periodic above, the maximum studiety period will exply and will expire SEX (6) MONTHS from the mailing date of the communication of the protection of the communication of the protection of the communication, and the protection of the communication, even if timely filed, may reduce any search glatent turm adjustment. Sea 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 15 November 2001. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1.16 is/are pending in the application. 4a) Of the above claim(s) is/are allowed. 5) Claim(s) 1.16 is/are pending in the application. 4a) Claim(s) 1.16 is/are pending in the application. 5) Claim(s) 1.16 is/are rejected. 7) Claim(s) 1.16 is/are rejected to. 8) Claim(s) 1.16 is/are rejected to. 8) Claim(s) 1.16 is/are rejected to by the Examiner. 10) The drawing(s) filed on 15 November 2001 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be hald in abeyance. Sea 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. 12) And by some c) None of: 12) Certified copies of the pri | | | | | | |
| THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under be provisions of 3 CFR 1.13(a). In or event, however, may a reply be timely filed after SX (6) MORTHS from the mailing date of this communication. As the six (6) MORTHS from the mailing date of the communication. Provision is a study of the provision of the mailing date of this communication. It is not extended period for reply will, by statistic prairies will pay and will explicit (50) MORTHS from the mailing date of this communication. Failure to reply william the set or extended period for reply will, by statistics, cause the application to become MARNONED (35 U.S. C. § 133). Any reply received by the Office lister than these nonside after the mailing date of this communication, even if timely filed, may reduce any accordance with the practice under Ex parte Quay/e, 1935 C.D. 11, 453 O.G. 213. Status 1) Responsive to communication(s) filed on 15 November 2001. 2a) This action is FINAL. 2b) This action is non-final. 3) Is since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quay/e, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1.16 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are objected to by the Examiner. 10) The specification is objected to by the Examiner. 10) The drawing(s) filed on 15 November 2001 is/are: a accepted or b) objected to by the Examiner. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 15 November 2001 is/are: a accepted or b) objected to by the Examiner. Application Papers 9) The drawing(s) filed on 15 November 2001 is/are: a accepted or b) objected to by the Examiner. 10) The drawing(s) filed on 15 November 2001 is/are: a accepted or b) objected to by the Examiner. 10) All by Some *c accepted or | The MAILING DATE of this communication apports of the second for Reply | ears on the cover sheet with the c | orrespondence address | | | |
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| 2a) ☐ This action is FINAL. 2b) ☐ This action is non-final. 3 ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) ☐ Claim(s) 1-16 is/are pending in the application. 4a) Of the above claim(s) is/are allowed. 6) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are objected to. 8] ☐ Claim(s) is/are objected to. 8] ☐ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 15 November 2001 is/are: a) accepted or b) ☐ objected to by the Examiner, Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received. Attachment(e) 1) ☐ Notice of Prafesperson's Patent Drawing Review (PTO-948) 3) ☐ Indireview Summary (PTO-413) Paper Not(s)/Mail Date | Status | | | | | |
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DETAILED ACTION

1. Claims 1-16 are pending and have been examined. The priority date considered for the application is November 15, 2000.

Oath/Declaration

2. The oath or declaration is objected to because the specification to which the oath or declaration is directed has not been adequately identified. See MPEP § 602. The intent may have been to select "is attached hereto," however no indication has been made. Reference is made to International App. No. PCT/US00/02716, which has been published as International Pub. No. WO 00/46667 and is owned by another assignee. A new oath or declaration in compliance with 37 CFR 1.67(a) identifying this application by application number and filing date is requested. See MPEP §§ 602.01 and 602.02.

Drawings

3. Figure 1 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.121(d)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

4. The disclosure is objected to because of the following informalities: The specification refers to "constant pool 20" in Figure 2, rather than --constant pool 30-- as illustrated in the drawings (see pages 7-9). The specification also refers to "Figure 3" where it is perhaps directed instead toward --Figure 4-- (see page 10, line 5). Appropriate correction is required.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 6. Claims 1, 5, 8, 12 and 16 are rejected under 35 U.S.C. 102(a) as being anticipated by International Pub. No. WO 00/46667 to Schwabe et al. (hereinafter "Schwabe").

With respect to claim 1, Schwabe discloses a Java run-time system (see page 1, lines 27-29, which shows a Java virtual machine or run-time system) comprising:

(a) a stacked-based interpreter for executing a Java program comprising Java bytecode instructions and Java class structures (see page 6, lines 18-20, which shows an interpreter for executing Java programs, and page 1, lines 19-26, which shows that the programs comprise Java bytecode instructions and class structures);

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(b) a converter for mapping standard Java symbolic linking strings contained in a downloaded Java program onto linking identifiers (see page 8, lines 17-27, which shows a converter for mapping symbolic names or strings to tokens or identifiers); and

(c) an export table for storing linking identifiers generated by the converter to bind a reference in a bytecode instruction to be executed to a corresponding link target (see page 8, lines 12-15, which shows an export component or table for storing the tokens or identifiers and linking or binding a reference).

With respect to claim 5, Schwabe further discloses said run-time system being ported on an embedded microcontroller of a smart card (see page 2, lines 7-17, which shows porting the run-time system on an embedded processor or microcontroller of a smart card).

With respect to claim 8, the limitations recited in the claim are analogous to those of claim 1 (see the rationale applied to claim 1 above).

With respect to claim 12, the limitations recited in the claim are analogous to those of claim 1 (see the rationale applied to claim 1 above).

With respect to claim 16, the limitations recited in the claim are analogous to those of claim 5 (see the rationale applied to claim 5 above).

Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are

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such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

8. Claims 2-4, 6, 7, 9-11, 13-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schwabe, as applied to claims 1, 8 and 12 above, respectively, in view of U.S. Pat. No. 5,764,987 to Eidt et al. (hereinafter "Eidt").

With respect to claim 2, although Schwabe discloses that the converter uses a function to assign the tokens or identifiers (see page 14, line 27 to page 15, line 7) to which the symbolic names or strings are mapped (see page 8, lines 17-27), Schwabe does not expressly disclose the limitation wherein the converter is adapted to use a hash function to map the standard Java symbolic linking strings onto linking identifiers.

However, Eidt discloses symbol import and export tables for linking references to objects in memory at run-time (see column 2, lines 1-34), wherein a hash function is used to locate the export symbols (see column 12, lines 5-27). Hashing the export symbols considerably increases the speed of searching for and importing the symbols (see column 11, lines 49-55).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to supplement the converter of Schwabe with a hash function, as taught by Eidt, to increase the speed of mapping the symbolic names or strings to the tokens or identifiers.

With respect to claim 3, Schwabe in view of Eidt further discloses the limitation wherein the converter is adapted to use a parameterized hash function to map the standard Java symbolic linking strings onto linking identifiers, the parameter being contained in the Java program to be

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downloaded (see Eidt, column 13, lines 13-35, which shows that the hash function is parameterized with parameters contained in the program).

With respect to claim 4, Schwabe in view of Eidt further disclose a Java development kit comprising the Java run-time system (see Schwabe, page 7, lines 3-7, which shows Java software development kits) and a Java conversion system for calculating a parameter for standard Java symbolic linking strings of a Java program to be downloaded on the Java run-time system (see Schwabe, page 10, lines 15-21, which shows a conversion system for determining parameters of the linking information of a Java program to be downloaded).

With respect to claim 6, the limitations recited in the claim are analogous to those of claim 5 (see the rationale applied to claim 5 above).

With respect to claim 7, the limitations recited in the claim are analogous to those of claim 5 (see the rationale applied to claim 5 above).

With respect to claim 9, the limitations recited in the claim are analogous to those of claim 2 (see the rationale applied to claim 2 above).

With respect to claim 10, the limitations recited in the claim are analogous to those of claim 3 (see the rationale applied to claim 3 above).

With respect to claim 11, Schwabe in view of Eidt does not expressly disclose the limitation wherein the parameter for the Java program to be downloaded is used to ensure that

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the hash function does not map two symbolic linking strings of the Java program to the same linking identifier.

However, Schwabe further discloses assigning tokens or identifiers in such a way as to ensure that two symbolic names or strings are not mapped to the same identifier (see page 14, line 27 to page 15, line 7).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use a parameter to ensure that the hash function does not map two symbolic linking strings of the Java program to the same linking identifier, as taught by Schwabe, for the purpose of avoiding any penalty that could otherwise result from a hash collision (see Eidt, column 12, line 66 to column 13, line 2).

With respect to claim 13, the limitations recited in the claim are analogous to those of claim 2 (see the rationale applied to claim 2 above).

With respect to claim 14, the limitations recited in the claim are analogous to those of claim 3 (see the rationale applied to claim 3 above).

With respect to claim 15, the limitations recited in the claim are analogous to those of claim 11 (see the rationale applied to claim 11 above).

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to Applicant's disclosure. U.S. Pat. No. 6,430,570 to Judge et al. discloses a system for managing Java applications in embedded devices. U.S. Pat. No. 5,815,718 to Tock discloses a method and

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system for loading classes in read-only memory. U.S. Pat. No. 6,338,160 to Patel et al. discloses a method for resolving references to the constant pool. International Pub. No. WO 99/49392 to Baentsch et al. discloses a Java run-time system with a modified constant pool.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael J. Yigdall whose telephone number is (703) 305-0352. The examiner can normally be reached on Monday through Friday from 7:30am to 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tuan Q. Dam can be reached on (703) 305-4552. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Michael J. Yigdall

Examiner

Art Unit 2122

mjy

TUAN DAM

SUPERVISORY PATENT EXAMINER